

APPARATUS, SYSTEM, AND METHOD FOR IDENTIFYING A FAULTY COMMUNICATION MODULE

ABSTRACT OF THE DISCLOSURE

An apparatus, method, and system associates an identifier with a data packet. The identifier uniquely identifies a communication module, such as a host interface card, within a data storage system. In operation, a computer host sends a data packet to a server. The communication module receives the data packet and associates an identifier, unique to the communication module, with the data packet. The data packet is stored in a disk array, such as a Redundant Array of Independent Disks (RAID) system. When the computer host later requests the stored data packet, a validation module, which may be implemented within a PCI adapter such as a host interface card, retrieves the data packet and determines whether the data packet is corrupt. If the data packet is corrupt, the validation module identifies which host interface card corrupted the data with the use of the unique identifier associated with the data packet. The faulty communication module may then be removed from operation in the data storage system.